

SECTION NTS

NOTES:

1. IN NON-SINGLE FAMILY RESIDENTIAL DEVELOPMENTS WHEN THE CLEANOUT IS LOCATED IN THE LANDSCAPE AREA, INSTALL A VALVE MARKER POST (NOT SHOWN), PAINTED FOREST GREEN (FARWEST PAINT, #388).
2. DEFORM END OF THREAD ON MECHANICAL PLUG BOLT TO SECURE WING NUT IN PLACE.
3. REFER TO STANDARD SPECIFICATION 7-19 SEWER CLEANOUTS.

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REVISION DATE: MARCH 01, 2018

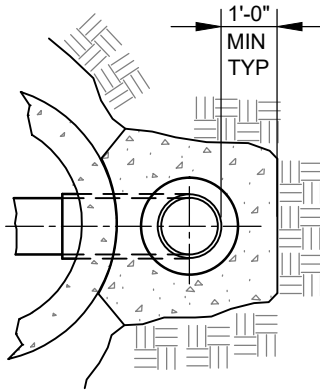


STANDARD DETAILS

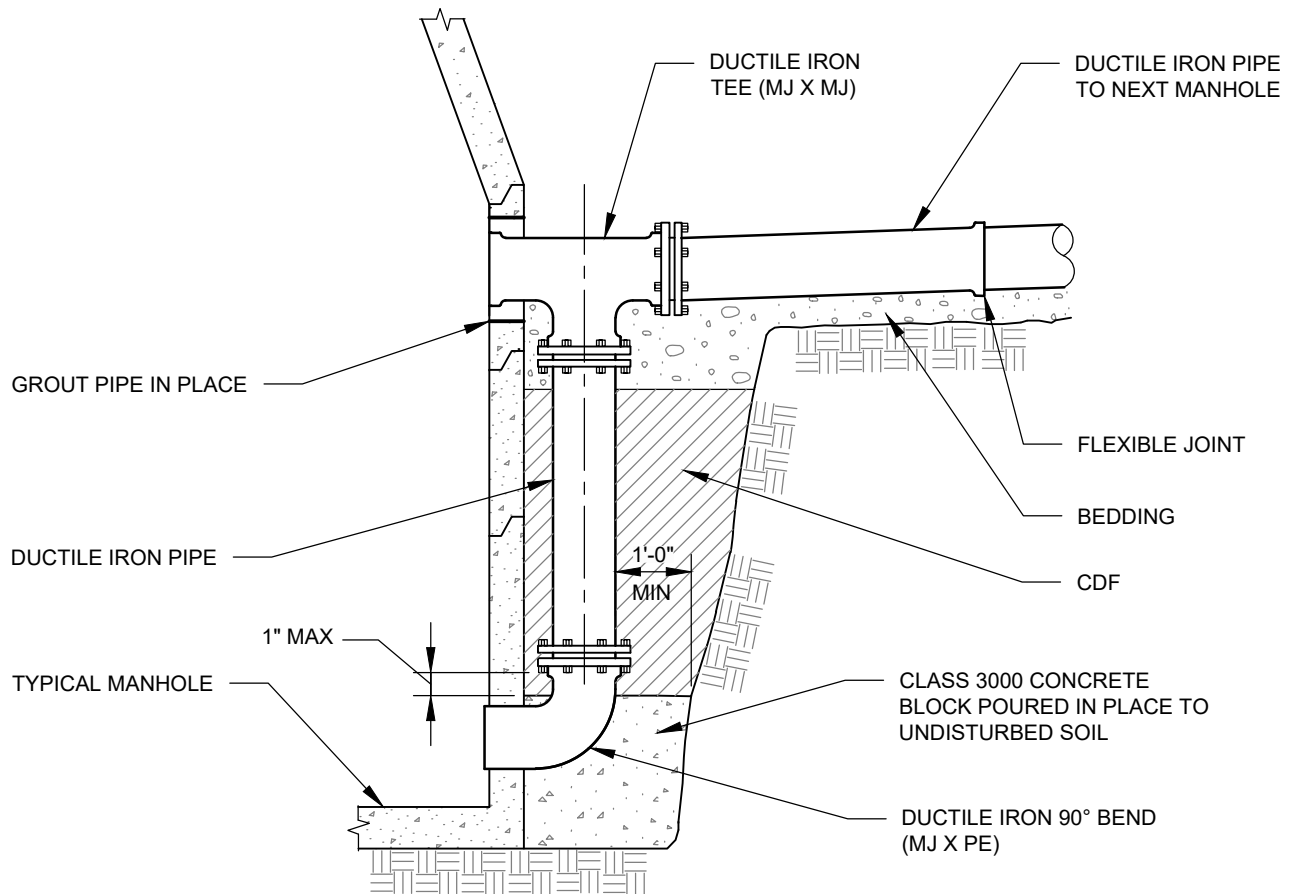
SIDE SEWER CLEANOUT

FILE NAME: SD810.DWG

DETAIL NUMBER: 810



PLAN
NTS



SECTION
NTS

NOTE:
FOR SIZE OF PIPE, REFER TO
CONSTRUCTION DRAWING.

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STANDARD DETAILS

DROP CONNECTION

FILE NAME: SD820.DWG

DETAIL NUMBER: **820**

TEE WITH 6"
BRANCH ON NEW
MAINS OR SEWER
SADDLE ON
EXISTING MAINS
(SEE PLAN FOR
SIZE AND TYPE)

SEWER MAIN

TEE FOR TESTING
(REFER TO STD DETAIL 832
TEST TEE- OPTIONAL,
MAY BE INSTALLED
WITH SIDE SEWER PIPING)

6" SIDE SEWER

20 FOOT MAX, ADDITIONAL
PIPE MAY BE INSTALLED AT
TIME OF MAIN CONSTRUCTION

PROPERTY LINE

LINE
PROPERTY

10'-0"
MIN

MARKER, TYP
CLEANOUT
PLUG

TYPICAL SINGLE SERVICE

NTS

TEE WITH 6"
BRANCH ON NEW
MAINS OR SEWER
SADDLE ON
EXISTING MAINS
(SEE PLAN FOR
SIZE AND TYPE)

SEWER MAIN

6" SIDE SEWER

2 - 6" X 6" WYE'S

20 FOOT MAX, ADDITIONAL
PIPE MAY BE INSTALLED AT
TIME OF MAIN CONSTRUCTION

MARKER, TYP

TEE FOR TESTING
(REFER TO STD
DETAIL 832, TEST
TEE - OPTIONAL, MAY
BE INSTALLED WITH
SIDE SEWER PIPING)

PROPERTY LINE

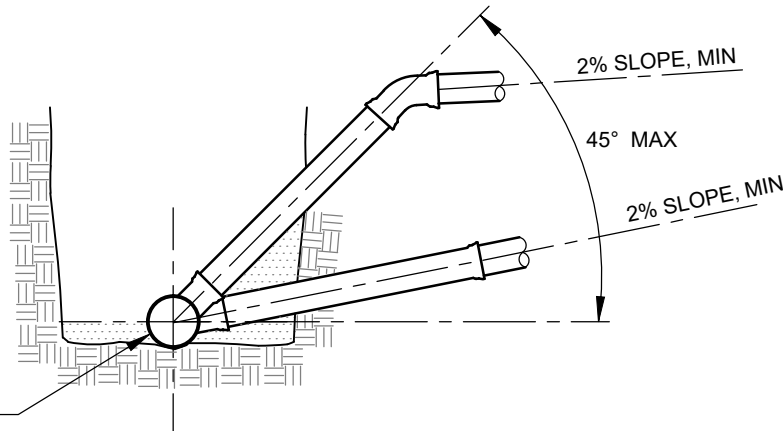
PROPERTY LINE

CLEANOUT PLUG

TYPICAL DOUBLE SERVICE

NTS

SEWER MAIN



CONNECTION AT SEWER MAIN

NTS

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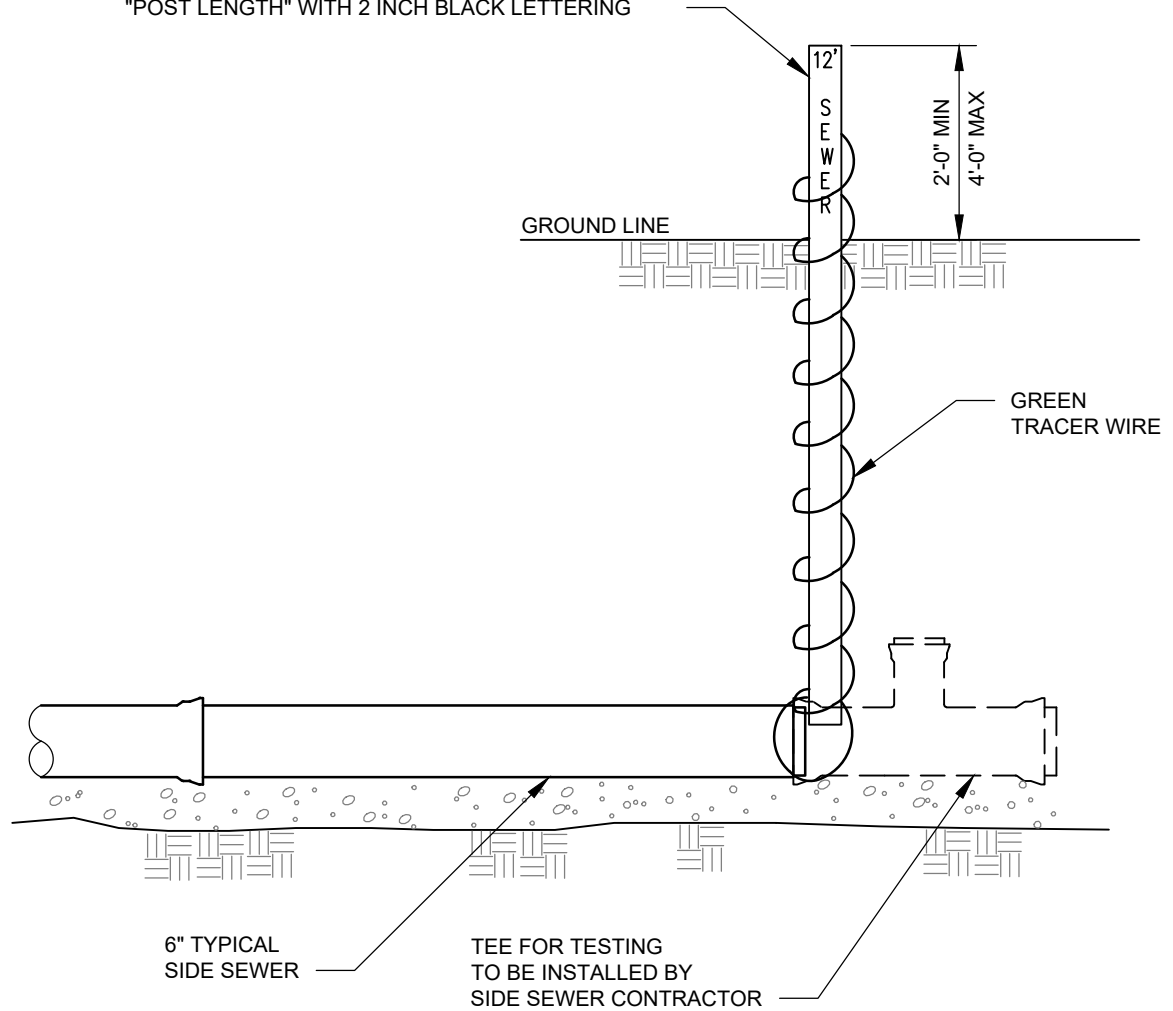
STANDARD DETAILS

SIDE SEWER

FILE NAME: SD830.DWG

DETAIL NUMBER: 830

USE 8', 10' OR 12' LONG 2" X 4" PRESSURE TREATED
WOODEN POST PAINTED WHITE TO MARK END
OF SIDE SEWER STUB. (SEE NOTE 2)
POST SHALL BE STENCILED "SEWER" AND
"POST LENGTH" WITH 2 INCH BLACK LETTERING



SIDE SEWER MARKER

NTS

NOTES:

1. DISTANCE TO SIDE SEWER STUB IS MEASURED FROM TOP OF POST TO INVERT OF PIPE.
2. FOR STUBS GREATER THAN 10 FEET DEEP, SPLICE PRESSURE TREATED 2"X 4" POSTS WITH A MINIMUM OF A 2 FOOT OVERLAP.

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STANDARD DETAILS

SIDE SEWER MARKER

FILE NAME: SD832.DWG

DETAIL NUMBER: 832

FIRST STEP
MAX OF
1'-6" DOWN

2'-0" CLEAR
OPENING

CITY OF REDMOND
MANHOLE RING AND COVER
EJIW #003705009B01 AND
OLYMPIC FOUNDARY MH30
(SEE STANDARD SPECIFICATION 9-05.15(1))

PRECAST CONCRETE
ADJUSTING RING,
4" MIN (1 RING)
1'-4" MAX (4 RINGS)

GROUT BETWEEN
ADJUSTING RINGS

PLASTER INSIDE
FACING WITH
3/4" GROUT

POLYPROPYLENE
MANHOLE STEPS

48" X 24" OFFSET CONE
ALIGN CONE OPENING AND
LADDER OVER OUTLET PIPE
(TYPE 1 MANHOLE WSDOT
STANDARD PLAN B-15.20-00)

RUBBER GASKETED,
GROUT ALL JOINTS
CONTINUOUS ON
INSIDE AND OUTSIDE
OF MANHOLE

FILL LIFTING HOLES WITH
NON-SHRINK GROUT

25'-0" MAX

LADDER
(SEE NOTE BELOW)

2-5%
SLOPE

CROWN + 0.1'

GRAVEL BACKFILL FOR
PIPE ZONE BEDDING
OR "PEA GRAVEL"

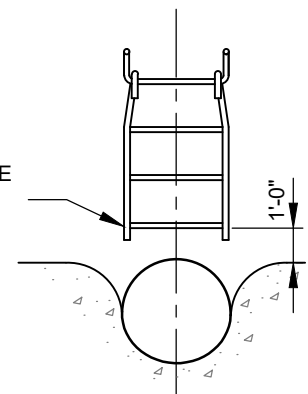
COR-N-SEAL OR
APPROVED EQUAL

6" MINIMUM

CHANNEL DEPTH SHALL BE
3/4 OF THE DIAMETER OF THE
PIPE, PRECAST CHANNELS
SHALL NOT BE USED

SECTION
NTS

USE 3/8" DIA SS
BOLTS TO SECURE
LADDER TO WALL



LADDER
NTS

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WATER/WASTEWATER ENGINEERING MANAGER

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STANDARD DETAILS

48" STANDARD
SEWER MANHOLE

FILE NAME: SD840.DWG

DETAIL NUMBER: 840

4" X 8" X 16" SOLID
CONCRETE BLOCKS

SET INVERT PER APPROVED
DESIGN OR AS DIRECTED

48" INSIDE DIAMETER
PRECAST CONCRETE MANHOLE

PROPOSED CHANNEL

LOCATE MANHOLE
FRAME AND COVER ON
DOWNSTREAM
SIDE OF MANHOLE

POURED IN PLACE
CONCRETE

MANHOLE STEPS

SOLID BENCH - 3,000 PSI
CONCRETE, SLOPE
SHOULDERS
5/8" PER FOOT

PLAN

NTS

FINISHED GRADE

CITY OF REDMOND
MANHOLE RING AND COVER
EJIW #003705009B01 AND
OLYMPIC FOUNDARY MH30
(SEE STANDARD
SPECIFICATION 9-05.15(1))

SEE STANDARD DETAIL 840
FOR MANHOLE INFORMATION

GROUT PIPE INTO
PLACE FROM OUTSIDE
OF MANHOLE

WATERTIGHT SEAL
ON MANHOLE (TYP)

CHANNEL

GROUT PIPE INTO PLACE
FROM OUTSIDE OF MANHOLE

3/4 CHANNEL

3000 PSI CONCRETE

UNDISTURBED EARTH

8"
MIN

SECTION

NTS

NOTES:

1. MANHOLES SHALL BE WATERTIGHT.
2. TOP OF EXISTING PIPE SHALL BE CUT AND REMOVED ONLY AFTER
NEW PIPE IS TESTED, CCTV'D, AND APPROVED BY THE CITY.

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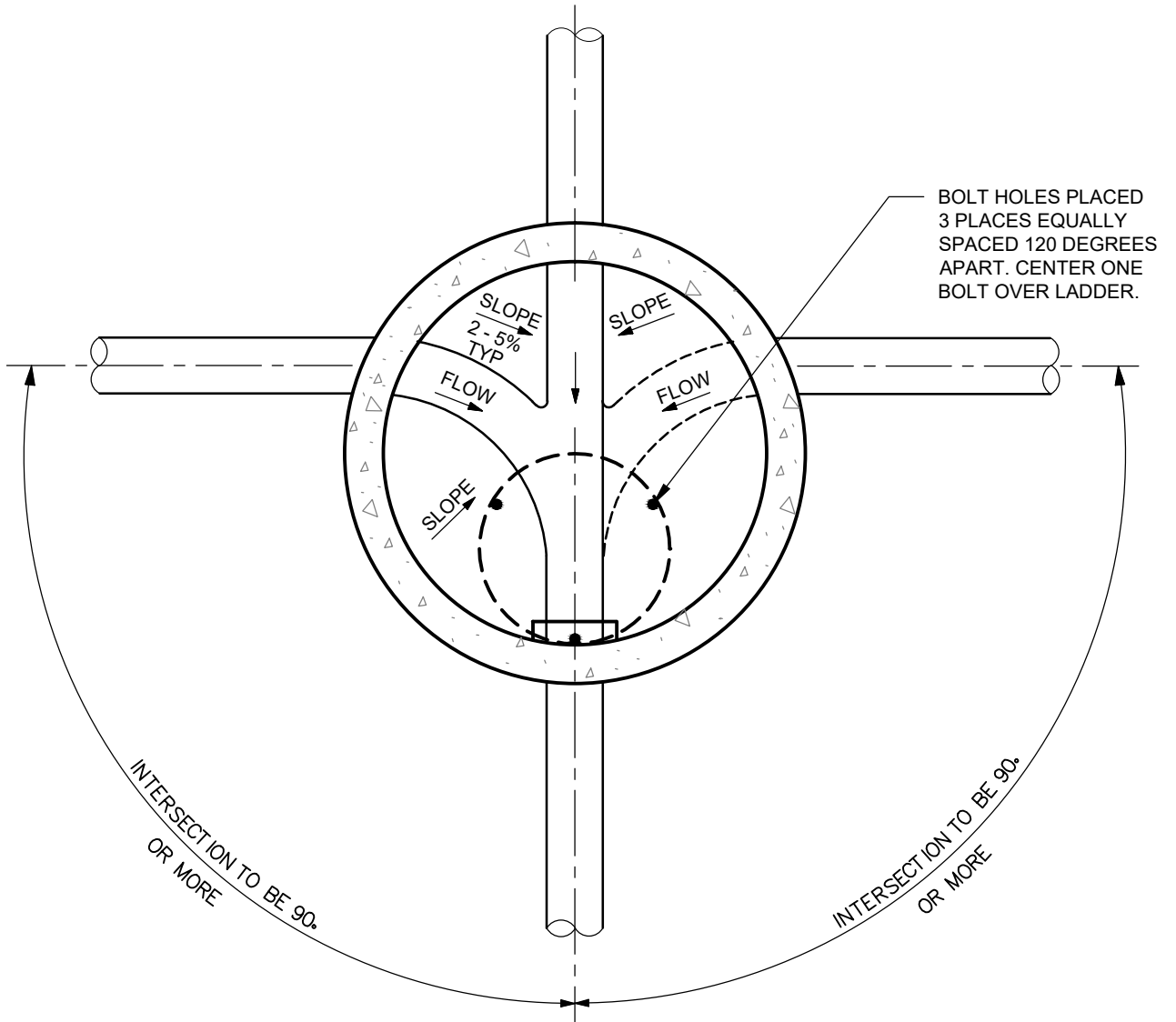
City of Redmond
WASHINGTON

STANDARD DETAILS

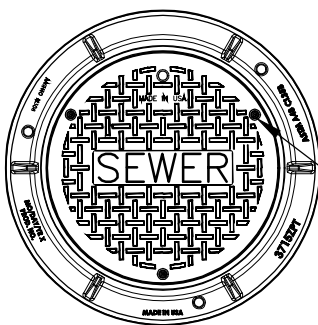
48" SADDLE MANHOLE

FILE NAME: SD841.DWG

DETAIL NUMBER: 841



PLAN
NTS



3 BOLT HOLES
SEE PLAN ABOVE

MANHOLE COVER
NTS

NOTE:

IN "TOP OF SYSTEM" MANHOLES WITH A 6 INCH LATERAL, PROVIDE CHANNELING TO THE UPSTREAM END OF MANHOLE. CHANNEL WIDTH SHALL BE EQUAL TO THE DOWNSTREAM SEWER MAIN DIAMETER.

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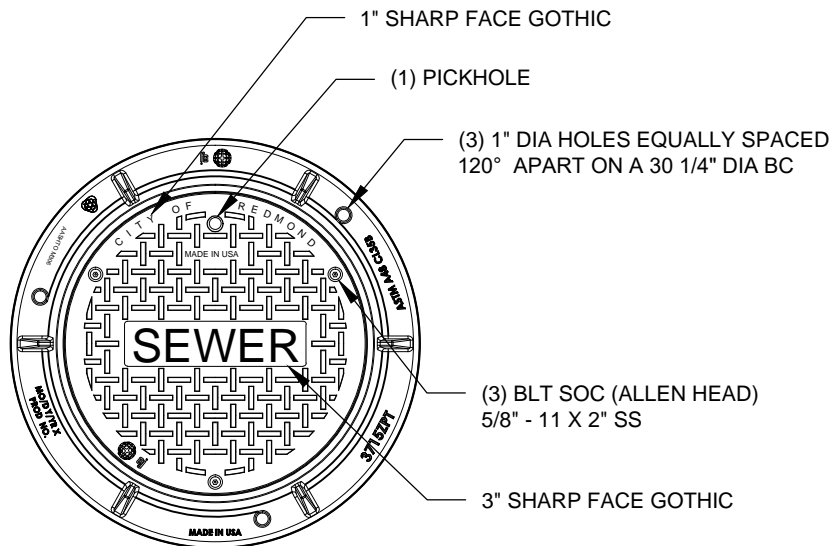


STANDARD DETAILS

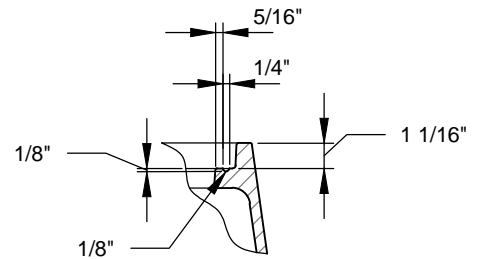
**INTERSECTION OF
SEWERS AT MANHOLE**

FILE NAME: SD842.DWG

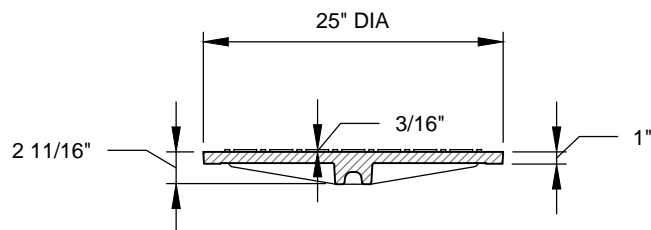
DETAIL NUMBER: 842



PLAN
NTS

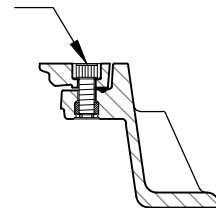


GASKET GROOVE DETAIL
NTS

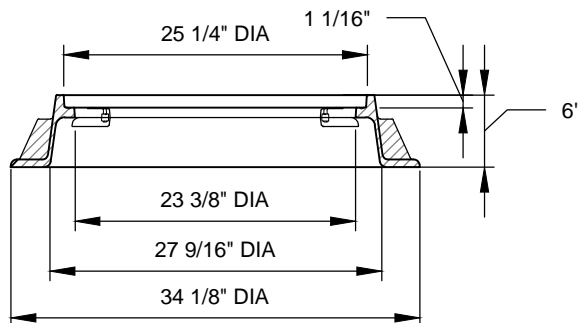


COVER SECTION
NTS

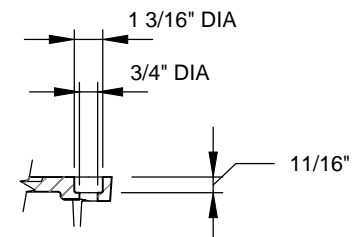
(3) BLT SOC (ALLEN HEAD)
5/8" - 11 X 1.5 SS WITH
SS AND RUBBER WASHERS
REPLACEABLE NUT



EON BOLTING DETAIL
NTS



FRAME SECTION
NTS



BOLTHOLE DETAIL
NTS

EJIW #003705009B01
NTS

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REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

**SEWER MANHOLE
FRAME AND COVER**

FILE NAME: SD843.DWG

DETAIL NUMBER: 843

DETAIL NUMBER: 890